

North Central **Michigan College**

NCMC MASTER COURSE SYLLABUS

Last Date Revised: 4/26/2007

DIVISION/AREA: Business and Technology

DEPARTMENT:

ASSOCIATE DEAN: Dr. Robert Marsh

ORIGINATOR: Eric Grandstaff

DEAN OF INSTRUCTION: Dr. Timothy Dykstra

HOURS OF INSTRUCTION:

Credit hours: 3

Lecture: 3

Lab: 0

Contact hours: 52.8

COURSE TITLE: Introduction to Digital Audio and Video

COURSE ALPHA: CAP

COURSE NUMBER: 160

CATALOG DESCRIPTION:

Introduces students to the essentials of editing video and audio with computers. Concepts are taught that may be applied to radio, PODcasting, TV/video production, VODcasting, multimedia authoring, and/or Internet video streaming. Current hardware requirements/limitations and future technology developments will also be discussed. Demonstrated knowledge of basic computer skills is recommended to be successful in this course.

PREREQUISITE(S):

COREQUISITE(S): None

GENERAL EDUCATION DISTRIBUTION AREA: N/A

GENERAL EDUCATION/PROGRAM OUTCOMES:

Think Critically and Analytically

Independently Acquire Knowledge

COURSE OBJECTIVES AND OUTCOMES:

At the successful completion of this course, the student will:

- Have an understanding of the appropriate format and technology for the intended

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audience of the content

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- Have a basic understanding of camera shots, camera capabilities, layouts and lighting
- Have an understanding of the various digital formats for both audio and video and their applicability for various media (web, broadcast, CDs/DVDs)
- Have a basic understanding of audio and video input and editing for final presentations

METHODS OF INSTRUCTION: Lecture, in class exercises, assignments, projects

METHODS OF EVALUATION: In class exercises, take home assignments, projects, tests/quizzes

REQUIRED TEXT AT TIME OF COURSE ADOPTION/REVISION:

TEXTS: TBD

OPTIONAL SUPPLEMENTARY MATERIALS:

Reasonable accommodations can be provided to students with documented disabilities. Please contact Learning Support Services at 348-6817 to arrange these.

SUGGESTED TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

(List general content description of what is being covered each week)

WEEK 1	Introduction to broadcast radio and television Worldwide broadcast standards
WEEK 2	Digital broadcast standards Intro to audio and video editing
WEEK 3	Storyboard development for shooting, editing
WEEK 4	Storyboard development for delivering video
WEEK 5	Video formats Data compression
WEEK 6	Video formats and editing
WEEK 7	Importing of images and audio into video editing
WEEK 8	Midterm exam and project presentation/update
WEEK 9	File management for large video files

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WEEK 10	QuickTime, Windows Media formatting for streaming Demonstration, presentation
WEEK 11	Interactive presentations and editing
WEEK 12	Developing audio and video for websites, incorporating Flash features
WEEK 13	Converting formats: digital to DVD, digital to VHS tape
WEEK 14	Developing interactive DVDs and CDs
WEEK 15	Project presentations
WEEK 16	Project presentations, final in-class exam

APPROVED FOR ADOPTION/REVISION BY THE CRD/AP COMMITTEE ON: 5/9/07